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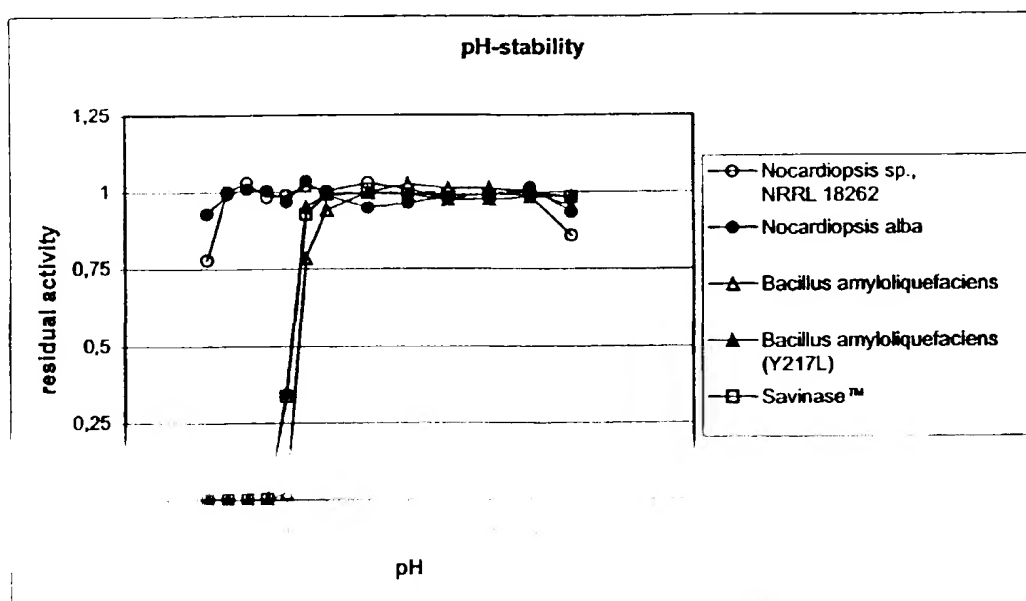
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(54) Title: USE OF ACID-STABLE PROTEASES IN ANIMAL FEED



(57) Abstract: Acid-stable proteases homologous to those derived from strains of the genus *Nocardopsis*, their use in animal feed, feed additives, and feed compositions containing such proteases, and methods for the treatment of vegetable proteins using such proteases.



*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

# INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 01/01153

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A23K1/165 A23K1/14 C12N9/52

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A23K C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, FSTA, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 96 05739 A (FINNFEEDS INT LTD ;GENENCOR INT (US)) 29 February 1996 (1996-02-29) cited in the application claims 1,9; example 2 ---	1-12
A	CAINE, W.R., VERSTEGEN, M. W. A., SAUER, W. C., TAMMINGA, S., AND SCHULZE, H.: "Effect of protease treatment of soybean meal on content of total soluble matter and crude protein and level of soybean trypsin inhibitors" ANIMAL FEED SCIENCE AND TECHNOLOGY., vol. 71, 1998, pages 177-183, XP001002549 AMSTERDAM., NL See whole document --- -/-	1-12

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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\*Z\* document member of the same patent family

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WO 95 21540 A (QUAKER OATS CO ;LEE PATRICK S (US); HAWLEY LAWRENCE A (US); KUNAS)  17 August 1995 (1995-08-17)  page 8, line 6-11  claims 1,2; example 1</p> <p>----</p>	1-12
A	<p>WO 99 53038 A (GENENCOR INT)  21 October 1999 (1999-10-21)  page 6, line 2-7  claims 1,9</p> <p>----</p>	1-12
A	<p>US 5 312 748 A (LIU CHI-LI ET AL)  17 May 1994 (1994-05-17)  column 3, line 43-51  claim 1; example 3</p> <p>----</p>	1-12
A	<p>WO 91 10723 A (NOVONORDISK AS)  25 July 1991 (1991-07-25)  page 3, paragraph 3  page 12, paragraph 2</p> <p>-----</p>	1-12

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Information on patent family members

International Application No

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